

IN THE CLAIMS:

Please amend Claims 8, 13, 18, 24 to 28, 30 to 36, 40 and 44. The claims, as pending in the subject application, read as follows:

1. (Original) A data processing apparatus capable of data communications with various devices connected with a communication medium, comprising:
  - acquisition means for acquiring function information, connection information and status information of each device through communication with the device;
  - management means for storing and managing the function information, connection information and status information acquired by said acquisition means;
  - system displaying means for displaying a system configuration on a display unit by using icons, in accordance with the connection information and status information stored and managed by said management means;
  - designation means for designating a combination of optional icons displayed on the display unit;
  - function setting screen displaying means for displaying a setting screen for setting a combination function in accordance with the combination designated by said designation means and displaying a configuration image including an expansion function of each device designated by said designation means on the combination function setting screen in accordance with the function information stored and managed by said management means; and

control means for controlling a composite function operation of devices corresponding to the combination function in accordance with an execution designation on the combination function setting screen displayed by said function setting screen displaying means.

2. (Original) An apparatus according to Claim 1, wherein said function setting screen displaying means displays a setting segment for an executable expansion function of each device on the combination function setting screen, in accordance with the function information of the device designated by said designation means.

3. (Original) An apparatus according to Claim 2, further comprising editing means for editing and setting display contents on the setting segment for the executable expansion function of each device displayed by said function setting screen displaying means,

wherein said function setting screen displaying means displays the setting segment for the executable function of the device on the combination function setting screen in accordance with an edit result by said editing means.

4. (Original) An apparatus according to Claim 1, wherein the communication medium is connected with plural other data processing apparatuses communicable with the data processing apparatus.

5. (Original) An apparatus according to Claim 4, wherein one of the plural data processing apparatuses is used as a management server.

6. (Original) An apparatus according to Claim 5, wherein the management server can store and manage an expansion configuration image resource of each device,

wherein said acquirement means acquires the expansion configuration image resource of each device transmitted from the management server each time the expansion configuration image resource of the device including the expansion function of the device and managed by the management server is updated.

7. (Original) An apparatus according to Claim 1, wherein the devices include a printer, a fax machine, a digital copying machine, a scanner, a digital camera, and a modem.

8. (Currently Amended) A data processing method for a data processing apparatus capable of data communications with various devices connected with a communication medium, comprising:

an acquirement step of acquiring function information, connection information and status information of each device through communication with the device;

a management step of storing and managing the function information, connection information and status information acquired in said acquirement step;

a system displaying step of displaying a system configuration on a display unit by using icons, in accordance with the connection information and status information stored and managed in said management step;

a designation step of designating a combination of optional icons displayed on the display unit;

a function setting screen displaying step of displaying a setting screen for setting a combination function in accordance with the combination designated in said designation step and displaying a configuration image including an expansion function of each device designated in said designation step on the combination function setting screen in accordance with the function information stored and managed in said management step[[.]]; and

a function executing step of executing a composite function operation of devices corresponding to the combination function in accordance with an execution designation on the combination function setting screen displayed in said function setting screen displaying step.

9. (Original) A method according to Claim 8, wherein said function setting screen displaying step displays a setting segment for an executable expansion function of each device on the combination function said function setting screen, in accordance with the function information of the device designated in said designation step.

10. (Original) A method according to Claim 9, further comprising an editing step for editing and setting display contents on the setting segment for the

executable expansion function of each device displayed in said function setting screen displaying step,

wherein said function setting screen displaying step displays the setting segment for the executable function of the device on the combination function setting screen in accordance with an edit result by said editing step.

11. (Original) A method according to Claim 8, wherein a management server is provided which can store and manage an expansion configuration image resource of each device,

wherein said acquirement step acquires the expansion configuration image resource of each device transmitted from the management server each time the expansion configuration image resource of the device including the expansion function of the device and managed by the management server is updated.

12. (Original) A method according to Claim 8, wherein the devices include a printer, a fax machine, a digital copying machine, a scanner, a digital camera, and a modem.

13. (Currently Amended) A storage medium storing a computer-readable program for controlling a data processing apparatus capable of data communications with various devices connected with a communication medium, the program comprising:

an acquirement step of acquiring function information, connection information and status information of each device through communication with the device;

a management step of storing and managing the function information, connection information and status information acquired in said acquirement step;

a system displaying step of displaying a system configuration on a display unit by using icons, in accordance with the connection information and status information stored and managed in said management step;

a designation step of designating a combination of optional icons displayed on the display unit;

a function setting screen displaying step of displaying a setting screen for setting a combination function in accordance with the combination designated in said designation step and displaying a configuration image including an expansion function of each device designated in said designation step on the combination function setting screen in accordance with the function information stored and managed in said management step; and

a function executing step of executing a composite function operation of devices corresponding to the combination function in accordance with an execution designation on the combination function setting screen displayed in said function setting screen displaying step.

14. (Original) A storage medium according to Claim 13, wherein said function setting screen displaying step displays a setting segment for an executable

expansion function of each device on the combination function said function setting screen, in accordance with the function information of the device designated in said designation step.

15. (Original) A storage medium according to Claim 14, wherein the program further comprises an editing step for editing and setting display contents on the setting segment for the executable expansion function of each device displayed in said function setting screen displaying step,

wherein said function setting screen displaying step displays the setting segment for the executable function of the device on the combination function setting screen in accordance with an edit result by said editing step.

16. (Original) A storage medium according to Claim 13, wherein a management server is provided which can store and manage an expansion configuration image resource of each device,

wherein said acquirement step acquires the expansion configuration image resource of each device transmitted from the management server each time the expansion configuration image resource of the device including the expansion function of the device and managed by the management server is updated.

17. (Original) A storage medium according to Claim 13, wherein the devices include a printer, a fax machine, a digital copying machine, a scanner, a digital camera, and a modem.

18. (Currently Amended) A data processing apparatus capable of data communications with plural devices of different types installed remotely via [[a]] data communication means path, comprising:

acquisition means for acquiring information for visually expressing an appearance of each device via the data communication means path; and

display control means for displaying first image data having image data for visually expressing the appearance of the device on a display screen of a display unit, in accordance with the information acquired by said acquisition means,

wherein the plural devices are independently connectable to an option unit, and

said display control means controls to change a display form of the first image data to be displayed on the display screen, in accordance with whether the option unit is connected or not or in accordance with a type of the connected option unit, even if the plural devices are of a same type having a same function.

19. (Original) An apparatus according to Claim 18, wherein the plural devices includes an image forming device for forming an image on a sheet, and the option unit includes at least one of a sheet processing unit and a sheet feed unit.

20. (Original) An apparatus according to Claim 18, wherein the information to be acquired by said acquisition means further includes information on an expansion function executable by each device, wherein said display control means displays the first image data in a first area of the display screen and displays a first function button



corresponding to the expansion function executable by the device in a second area of the display screen, in accordance with the information acquired by said acquirement means.

21. (Original) An apparatus according to Claim 20, wherein said display control means arranges and displays plural first function buttons corresponding to plural expansion functions in the second area of the display screen, if there are plural expansion functions executable by the device.

22. (Original) An apparatus according to Claim 20, wherein said display control means arranges and displays the first function button and a second function button corresponding to a function executable by the data processing apparatus in the second area of the display screen.

23. (Original) An apparatus according to Claim 20, wherein the device includes an image forming device for forming an image on sheet and the first function button includes at least a function bottom for designating one of a staple mode, a two-face printing mode, and a page layout mode.

24. (Currently Amended) A data processing apparatus capable of data communications with plural devices of different types installed remotely via [[a]] data communication means path, comprising:

selection means for selecting any of said plural devices;

acquisition means for acquiring information on ~~an expansion~~ a function executable by ~~each~~ said device ~~via the data communication path selected by said selection means~~; and

display control means for displaying a **first** function button corresponding to the ~~expansion~~ function executable by ~~the~~ said device in a first area of a display screen of a display device, in accordance with the information acquired by said acquisition means,

wherein said display control means causes to display a first function button corresponding to a first function when the device selected by said selection means can execute the first function, and causes to display a second function button corresponding to a second function instead of the first function button corresponding to the first function when said device selected by said selection means cannot execute the first function but can execute the second function.

25. (Currently Amended) An apparatus according to Claim 24, wherein said display control means arranges and displays plural **first** function buttons corresponding to plural ~~expansion~~ functions ~~in the second area of~~ on the display screen, if there are plural ~~expansion~~ functions executable by the device.

26. (Currently Amended) An apparatus according to Claim 25, further comprising changing means for changing a layout order of the plural **first** function buttons in the first area of the display screen.

27. (Currently Amended) An apparatus according to Claim 24, further comprising, if there are ~~area~~ plural candidates for the ~~expansion~~ function capable of being displayed in the first area of the display screen ~~as first function buttons~~, selecting means for selecting a candidate to be displayed as the ~~first~~ function button, from the plural candidates.

28. (Currently Amended) An apparatus according to Claim 24, wherein said display control means arranges and displays the first function button corresponding to the ~~expansion~~ first function executable by the remotely installed device and a second function button corresponding to a second function executable by the data processing apparatus, in the first area of the display screen.

29. (Original) An apparatus according to Claim 28, further comprising changing means for changing a layout order of plural function buttons including the first and second function buttons in the first area of the display screen.

30. (Currently Amended) A data processing method for a data processing apparatus capable of data communications with plural devices of different types installed remotely via ~~[[a]]~~ data communication means ~~path~~, comprising:

an acquirement step of acquiring information for visually expressing an appearance of each device via the data communication means ~~path~~; and

a display controlling step of displaying first image data having image data for visually expressing the appearance of the device on a display screen of a display unit, in accordance with the information acquired in said acquirement step,

wherein the plural devices are independently connectable to an option unit,  
and

said display controlling step controls to change a display form of the first image data to be displayed on the display screen, in accordance with whether the option unit is connected or not or in accordance with a type of the connected option unit, even if the plural devices are of a same type having a same function.

31. (Currently Amended) A storage medium storing a computer-readable program for executing a program for controlling a data processing apparatus capable of data communications with plural devices of different types installed remotely via [[a]] data communication means ~~path~~, the program comprising:

an acquirement step of acquiring information for visually expressing an appearance of each device via the data communication means ~~path~~; and

a display controlling step of displaying first image data having image data for visually expressing the appearance of the device on a display screen of a display unit, in accordance with the information acquired in said acquirement step,

wherein the plural devices are independently connectable to an option unit,  
and

said display controlling step controls to change a display form of the first image data to be displayed on the display screen, in accordance with whether the option unit is connected or not or in accordance with a type of the connected option unit, even if the plural devices are of a same type having a same function.

32. (Currently Amended) A data processing method for a data processing apparatus capable of data communications with plural devices of different types installed remotely via [[a]] data communication means ~~path~~, comprising:

a selection step of selecting any of said plural devices;

an acquirement step of acquiring information on ~~an expansion~~ a function executable by ~~each~~ said device ~~via the data communication path~~ selected in said selection step; and

a display controlling step of displaying a first function button corresponding to the ~~expansion~~ function executable by the said device in a first area of a display screen of a display device, in accordance with the information acquired in said acquirement step,

wherein said display controlling step causes to display a first function button corresponding to a first function when the device selected in said selection step can execute the first function, and causes to display a second function button corresponding to a second function instead of the first function button corresponding to the first function when said device selected in said selection step cannot execute the first function but can execute the second function.

33. (Currently Amended) A method according to Claim 32, wherein said display controlling step arranges and displays the first function button corresponding to the ~~expansion~~ first function executable by the remotely installed device and a second function button corresponding to a second function executable by the data processing apparatus, in the first area of the display screen.

34. (Currently Amended) A storage medium storing a computer-readable program for executing a program for controlling a data processing apparatus capable of data communications with plural devices of different types installed remotely via [[a]] data communication means path, the program comprising:

a selection step of selecting any of said plural devices;

an acquirement step of acquiring information on ~~an expansion~~ a function executable by ~~each said device via the data communication path~~ selected in said selection step; and

a display controlling step of displaying a ~~first~~ function button corresponding to the ~~expansion~~ function executable by ~~the~~ said device in a first area of a display screen of a display device, in accordance with the information acquired in said acquirement step,

wherein said display controlling step causes to display a first function button corresponding to a first function when the device selected in said selection step can execute the first function, and causes to display a second function button corresponding to a second function instead of the first function button corresponding to the first function when said device selected in said selection step cannot execute the first function but can execute the second function.

35. (Currently Amended) A storage medium according to Claim 34, wherein said display controlling step arranges and displays the first function button corresponding to the ~~expansion~~ first function executable by the remotely installed device and a second function button corresponding to a second function executable by the data processing apparatus, in the first area of the display screen.

36. (Currently Amended) A data processing apparatus capable of data communications with various devices connected with a communication medium, comprising:

first setting means for setting a specific image processing condition for a desired device;

second setting means for setting a specific image processing condition executable by the data processing apparatus;

image processing means for processing image data input from each device to execute a specific image editing processing, in accordance with the specific image processing condition set by one of said first and second setting means; and

control means for outputting the image data processed by said image processing means from one of the devices;

selection means for selecting any of said various devices; and

display control means for causing a display device to display a display screen having a display section including said first setting means and said second setting means,

wherein said display control means makes display contents of said display section on said display screen customizable with respect to each selection result of said selection means.

37. (Original) An apparatus according to Claim 36, wherein said image processing means executes the specific image editing processing for image data input from each device, in accordance with the specific image processing condition set by said second

setting means, the specific image editing processing including an image effect editing processing and stamp addition editing processing.

38. (Original) An apparatus according to Claim 36, wherein the devices include a printer, a fax machine, a digital copying machine, a scanner, a digital camera, and a modem.

39. (Original) An apparatus according to Claim 36, wherein said control means outputs the processed image data or image data input from each device from another device.

40. (Currently Amended) A data processing method for a data processing apparatus capable of data communications with various devices connected with a communication medium, comprising:

a first setting step of setting a specific image processing condition for a desired device;

a second setting step of setting a specific image processing condition executable by the data processing apparatus;

an image processing step of processing image data input from each device to execute a specific image editing processing, in accordance with the specific image processing condition set in one of said first and second setting steps; and

a controlling step of outputting the image data processed by said image processing means from one of the devices;



a selection step of selecting any of the various devices; and  
a display control step of causing a display device to display a display screen  
having a display section including the matters to be set in said first setting step and said  
second setting step.

wherein said display control step makes display contents of the display  
section on the display screen customizable with respect to each selection result in said  
selection step.

41. (Original) A method according to Claim 40, wherein said image processing step executes the specific image editing processing for image data input from each device, in accordance with the specific image processing condition set in said second setting step, the specific image editing processing including image effect editing processing and stamp addition editing processing.

42. (Original) A method according to Claim 40, wherein the devices include a printer, a fax machine, a digital copying machine, a scanner, a digital camera, and a modem.

43. (Original) A method according to Claim 40, wherein said control step outputs the processed image data or image data input from each device from another device.

44. (Currently Amended) A storage medium storing a computer-readable program for controlling a data processing apparatus capable of data communications with various devices connected with a communication medium, the program comprising:

a first setting step of setting a specific image processing condition for a desired device;

a second setting step of setting a specific image processing condition executable by the data processing apparatus;

an image processing step of processing image data input from each device to execute a specific image editing processing, in accordance with the specific image processing condition set in one of said first and second setting steps; and

a controlling step of outputting the image data processed by said image processing means from one of the devices;

a selection step of selecting any of the various devices; and

a display control step of causing a display device to display a display screen having a display section including the matters to be set in said first setting step and said second setting step.

wherein said display control step makes display contents of the display section on the display screen customizable with respect to each selection result in said selection step.

45. (Original) A storage medium according to Claim 44, wherein said image processing step executes the specific image editing processing for image data input

from each device, in accordance with the specific image processing condition set in said second setting step, the specific image editing processing including image effect editing processing and stamp addition editing processing.

46. (Original) A storage medium according to Claim 44, wherein the devices include a printer, a fax machine, a digital copying machine, a scanner, a digital camera, and a modem.

47. (Original) A storage medium according to Claim 44, wherein said control step outputs the processed image data or image data input from each device from another device.